

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-119784

(43)Date of publication of application : 07.05.1990

(51)Int.Cl.

C12P 3/00  
// C03C 17/25

(21)Application number : 63-272742

(71)Applicant : MEIJI SEIKA KAISHA LTD

(22)Date of filing : 28.10.1988

(72)Inventor : HAMAYA TORU  
HORIKOSHI KOKI  
ADACHI TAKASHI  
HIDAKA HIDEMASA

## (54) PRODUCTION OF CERAMICS AND ADDITION OF CERAMICS

## (57)Abstract:

PURPOSE: To produce uniformly fine, pure and dense ceramics particles consisting of an inorganic salt composed of the inorganic ion mentioned below and an anion produced by the following reaction in a short time at a low temperature by reacting an enzyme(-containing organism) with a substrate for the above-mentioned enzyme in an inorganic ion-containing solution.

CONSTITUTION: An enzyme(-containing organism) (e.g., urease) is reacted with a substrate (e.g., urea) for the above-mentioned enzyme in an inorganic ion (e.g.,  $Al^{3+}$ )-containing solution (e.g., aqueous aluminum chloride solution) to obtain ceramics. When addition of ceramics to a substance is required, the above-mentioned substance is recommendably added to an inorganic ion-containing solution and an enzyme, etc., and a substrate for the above-mentioned enzyme are added thereto followed by a reaction.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office